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In the Claims

1-48. (Canceled)

1 49. (New) A digital micro-mirror device (DMD) format conversion system for  
2 outputting a stereoscopic encoded optical signal in a format readable within a display  
3 system employing a DMD and a color wheel, said DMD format conversion system  
4 comprising:  
5 a 3D data formatter for receiving an input signal having stereoscopic image  
6 information with an input frame rate and generates an output signal comprising  
7 stereoscopic image information and control information having a self synchronized  
8 output frame rate independent of and decoupled from the input frame rate;  
9 a DMD data formatter for receiving the output signal having stereoscopic image  
10 information and control information from the 3D data formatter and for outputting a  
11 DMD output signal having stereoscopic image information and control information,  
12 wherein the DMD output signal having stereoscopic image information  
13 and control information, including a color wheel control signal indicative of  
14 rotation rate and output digital micro-mirror device data indicative of micro-  
15 mirror switching rates, wherein said color wheel control signal and output digital  
16 micro-mirror device data are synchronized based on the output frame rate  
17 generated by the 3D data formatter;  
18 said digital micro-mirror device data formatter including  
19 a dual port memory controller that converts the output signal having  
20 stereoscopic image information and control information from the 3D data  
21 formatter, with a full color image format, at the output frame rate into an image

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22 stream having serial individual color images synchronized to the color wheel  
23 control signal based on the output frame rate  
24 a memory device;  
25 a DMD data converter for formatting from the image stream into  
26 output DMD data readable by a digital micro-mirror chip; and  
27 a micro-controller for controlling the dual port memory controller based on the 3D  
28 format.

1 50. (New) The DMD format conversion system as in claim 49, wherein said self  
2 synchronized output frame rate is set or selected to reduce appearance of flicker.

1 51. (New) The DMD format conversion system as in claim 49, wherein the output  
2 signal of the 3D data formatter is color sequential stereoscopic data.

1 52. (New) The DMD format conversion system as in claim 49, wherein the output  
2 signal of the 3D data formatter is frame sequential stereoscopic data.

1 53. (New) A DMD projection system comprising:  
2 the DMD format conversion system as in claim 49;  
3 an illumination source including a lamp for transmitting light to condensing  
4 optics, light from said condensing optics being transmitted to a rotating color wheel, the  
5 rotating color wheel coupled to the DMD data formatter for receiving color wheel control  
6 signals indicative of rotation rate synchronized based on the output frame rate generated

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7 by the 3D data formatter;  
8 a digital micro-mirror chip for receiving the output DMD data and reflecting,  
9 from micro-mirrors of the digital micro-mirror chip, light received from said color wheel;  
10 and  
11 projection optics for projecting light reflected from said digital micro-mirror chip.

1 54. (New) The DMD projection system as in claim 53, wherein said color wheel  
2 includes a 3D encoder system synchronized based on the output frame rate generated by  
3 the 3D data formatter.

1 55. (New) A stereoscopic viewing system comprising the DMD projection system as  
2 in claim 54 and an optical decoder for allowing a viewer to perceive stereoscopic images

1 56. (New) The stereoscopic viewing system as in claim 55, wherein the optical  
2 decoder comprises passive polarizing lenses having one polarization state corresponding  
3 to one eye and another polarization state corresponding to another eye.

1 57. (New) The stereoscopic viewing system as in claim 55,, wherein the optical  
2 decoder comprises active shutter glasses.